

F1
contd

tris(hydroxymethyl)glycine, a tris(hydroxymethyl)glycine salt,
tris(hydroxymethyl)aminomethane, a tris(hydroxymethyl)aminomethane salt, imidazole,
and collidine.

2
Replace lines 1-9 on page 5 and lines 1-4 on page 6:

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F2

The present invention also relates to a method for stabilizing glucose dehydrogenase for use in glucose sensors, wherein at least one additive is added to PQQ-GDH, the additive being selected from the group consisting of phthalic acid, a phthalate maleic acid, a maleate, succinic acid, a succinate, triethanol amine, a triethanol amine salt, citric acid, a citrate, dimethyl glutaric acid, 2-(N-morpholino)ethane sulfonic acid, a 2-(N-morpholino)ethane sulfonate, tris(hydroxymethyl)glycine, a tris(hydroxymethyl)glycine salt, tris(hydroxymethyl)aminomethane, a tris(hydroxymethyl)aminomethane salt, imidazole, and collidine.

Replace lines 1-13 on page 6:

F3

The present invention further relates to a glucose dehydrogenase composition for use in glucose sensors, the composition containing PQQ-GDH and at least one additive selected from the group consisting of phthalic acid, a phthalate, maleic acid, a maleate, succinic acid, a succinate, triethanol amine, a triethanol amine salt, citric acid, a citrate, dimethyl glutaric acid, 2-(N-morpholino)ethane sulfonic acid, a 2-(N-morpholino)ethane sulfonate, tris(hydroxymethyl)glycine, a tris(hydroxymethyl)glycine salt, tris(hydroxymethyl)aminomethane, a tris(hydroxymethyl)aminomethane salt, imidazole, and collidine.

Replace lines 24-28 on page 9 and lines 1-14 on page 10:

F4

The additive from which the above-mentioned effects can be expected may be exemplified as phthalic acid, a phthalate such as potassium hydrogen phthalate, maleic acid, a maleate such as sodium maleate, succinic acid, a succinate such as sodium succinate, triethanol amine, a triethanol amine salt such as triethanol amine

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hydrochloride, citric acid, a citrate such a monopotassium citrate, calcium citrate, tripotassium citrate, trisodium citrate, trilithium citrate, diammonium hydrogen citrate, disodium hydrogen citrate, sodium citrate, diammonium citrate, potassium dihydrogen citrate, sodium dihydrogen citrate, disodium citrate or magnesium citrate, dimethyl glutaric acid, (2-N-morpholino)ethane sulfonic acid, a 2-(N-morpholino)ethane sulfonate, tris(hydroxymethyl)glycine, a tris(hydroxymethyl)glycine salt, tris(hydroxymethyl)aminomethane, a tris(hydroxymethyl)aminomethane salt such as tris(hydroxymethyl)aminomethane hydrochloride, imidazole, and collidine.

Replace Table 1 on page 23 with the following new Table:

F5

Buffer solution	pH	Residual activity (%)
Potassium hydrogen phthalate	6.0	100
Maleic acid	6.5	100
Succinic acid	6.0	100
Triethanol amine	7.0	100
Sodium dihydrogen citrate	6.5	100
Dimethyl glutaric acid	6.5	100
Tricine	7.5	95.4
Imidazole	7.5	100
Collidine	6.5	96.1
Tris hydrochloride	7.5	63.4
Potassium phosphate	6.5	44.3

IN THE CLAIMS:

Please rewrite the following claims in the manner indicated:

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38. (Three Times Amended) A glucose dehydrogenase composition for use in glucose sensors, said composition containing glucose dehydrogenase whose coenzyme is pyrrolo-quinoline quinone, and at least one additive selected from the group consisting of

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phthalic acid, a phthalate, maleic acid, a maleate, triethanol amine, a triethanol amine salt, dimethyl glutaric acid, (N-morpholino)ethane sulfonic acid, a 2-(N-morpholino)ethane sulfonate tris(hydroxymethyl)glycine, a tris(hydroxymethyl)glycine salt, tris(hydroxymethyl)aminomethane, a tris(hydroxymethyl)aminomethane salt, imidazole or collidine.

55. (Twice Amended) A glucose sensor comprising an electrically insulating base plate, an electrode system including at least a working electrode and a counter electrode formed on said base plate, and a reaction layer which is formed in contact with or in the vicinity of said electrode system wherein said reaction layer contains: a glucose dehydrogenase whose coenzyme is pyrrolo-quinoline quinone; and an additive selected from the group consisting of maleic acid, a maleate, triethanol amine, a triethanol amine salt, citric acid, a citrate, dimethyl glutaric acid, 2-(N-morpholino)ethane sulfonic acid, a 2-(N-morpholino)ethane sulfonate, tris(hydroxymethyl)glycine, a tris(hydroxymethyl)glycine salt, tris(hydroxymethyl)aminomethane, a tris(hydroxymethyl)aminomethane salt, imidazole or collidine.

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G1

56. (Amended) The glucose sensor in accordance with claim 82, wherein said stabilizer is a metal salt selected from the group consisting of a calcium salt, CaCl_2 , a strontium salt and a manganese salt.

57. (Amended) The glucose sensor in accordance with claim 82, wherein said stabilizer is an organic acid selected from the group consisting of α -ketoglutaric acid, malic acid, fumaric acid, gluconic acid, cholic acid and deoxycholic acid.

58. (Amended) The glucose sensor in accordance with claim 82, wherein said stabilizer is a protein selected from the group consisting of bovine serum albumin, egg albumin and gelatin.

59. (Amended) The glucose sensor in accordance with claim 82, wherein said stabilizer is a sugar or a derivative thereof selected from the group consisting of a